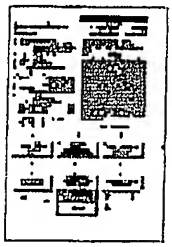
Title: **JP04300232A2: COMPOSITE GYPSUM BOARD AND ITS PRODUCTION**

Derwent Title: Composite gypsum board having improved bending strength and surface precision - is mfd. by mixing alpha-type hemi:hydrate gypsum, dried waste paper pulp, inorganic powder and water, moulding and curing [Derwent Record]

Country: **JP** Japan
Kind: **A**



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Inventor: **YOSHIDA HIROSHI;**
SAKAI MATSUNARI;
WATANABE KOJI;
KUBOTA HACHIRO;

Assignee: **CHUBU ELECTRIC POWER CO INC**
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Priority Number: 1991-03-29 **JP1991000066229**

Abstract: PURPOSE: To obtain a composite gypsum board having improved flexural strength and surface accuracy by adding water to a mixture of α-gypsum hemihydrate, dried waste paper pulp and inorganic powder, mixing and forming the mixture and curing the formed product.

CONSTITUTION: Raw materials composed of 95-45wt.% of α-gypsum hemihydrate having a Blaine specific surface area of 1,000-8,000cm2/g, 3-45wt.% of dried waste paper pulp having a diameter of 20-100μm and a length of 50-3,000μm and 2-20-wt.% of inorganic powder (shirasu balloon) having a fineness of 20-500μm are mixed with each other by a mixer, added with 20-60wt.% of water (based on 100wt.% of the α-gypsum hemihydrate) using a spray nozzle under pressure and further mixed. The obtained mixture is transferred to a forming machine and formed in the form of a mat. The mat is transferred to a press, pressed under the condition of 5-50kgf/cm2 to obtain a board, cured at room temperature to 45°C and dried at 70-90°C to obtain the objective composite gypsum board having a bulk density of 0.8-1.5 and a flexural strength of 50-150 kgf/cm2.

Family: None

Forward References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract Info: CHEMABS 118(14)130760P CAN118(14)130760P DERABS C92-403122 DERC92-403122